GLOBAL GREEN TAG INTERNATIONAL PTY LTD

PHD™
Product Health Declaration

GLOBAL GREENTAG HEALTH RATE
Platinum HEALTH
CERT TM
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Dulux Australia

Dulux UltraAir Interior Walls Matt

Dulux UltraAir Interior Walls Matt is a low emission low odour water based paint. This product is also certified to GreenGuard Gold and has VOC emission of <0.5g/L VOC (Volatile Organic Compound) untinted and tinted with Decorama tinters. In terms of its application, 2 coats on ceiling are recommended with 1L per 16m2.

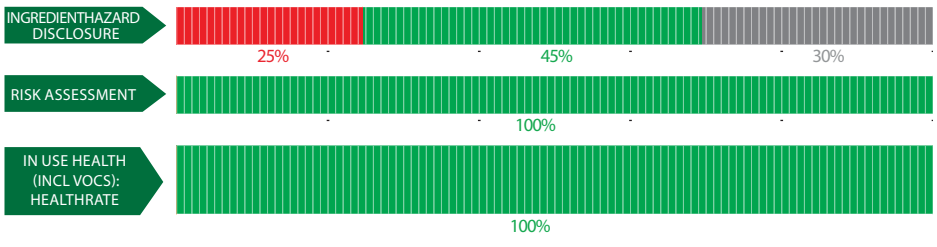
Products/Ranges:	Dulux UltraAir
Product Stages Assessed:	Material inputs, manufacturing, in-use
CSI Masterformat:	09 91 00 Painting
Licenced Site/s:	Victoria, Australia
Licence Number:	DUL:UA04:2021:PH
Licence Date:	25th June 2021
Valid To:	25th June 2024
Standard:	GGT International v4.0
Screening Date:	31st January 2021
PHD URL:	https://www.globalgreentag.com/getfile/12752/phd.pdf

PHD Summary	Inventory Threshold:	Inventory Method:
Percentage Assessed: 100%	100ppm Product Level	Nested Materials

- GreenTag Banned List Compliant.
- Product Meets Optimisation requirements - No Grey or Red Light category ingredient.
- Meets Green Star Buildings v1.0 Credit 13: Exposure to Toxins, Green Star Design & As Built v1.3 Credit 13 Indoor Pollutant, Green Star Interiors v1.3 Credit 12: Indoor Pollutants
- Meets WELL™ v1.0 Features - 11: Fundamental Material - Part 1c, 26: Enhanced Material Safety, 04: VOC Reduction Part 1, 26: Enhanced Material Safety Part 1, 97: Material Transparency and WELL™ v2.0 Features - X01: Material Restrictions - Part 3, X06 VOC Restrictions Part 1, X07: Material Transparency Part 3, X08: Material Optimization Part 1
- Meets USGBC LEED® v4.0 and v4.1 Rating System MR Credit: "Building Product Disclosure and Optimisation - Material Ingredients" - Option 1: Material Ingredient Reporting and Option 2 - International ACP - REACH Optimisation.
- No worker, user, and environmental exposure to Carcinogens, Mutagens, Reproductive Toxicant or Endocrine Disruptors.

ASSESSMENT:

INGREDIENT HAZARD DISCLOSURE, RISK ASSESSMENT, & IN USE HEALTH, % by mass.



Declared by:
Global GreenTag International Pty Ltd

David Baggs
CEO & Program Director
Verified compliant with:
ISO 14024 & ISO 17065

1.0 Scope

The Global GreenTag International (GGT) Product Health Declaration (PHD) has been designed to provide an additional level of service to the green product sector in facilitating an easier understanding of both the hazard and risk associated with any certified products and is intended to indicate:

- Chemical hazards of both finished product and unique ingredients to a minimum level of 100ppm for each homogeneous ingredient throughout the product life cycle, (including any VOC or other gaseous emissions);
- An assessment of exposure or risk associated with ingredient handling, product use, and disposal in relation to established mitigation and management processes;

It is not intended to assess:

i. substances used or created during the manufacturing process unless they remain in the final product; or

ii. substances created after the product is delivered for end use (e.g., if the product unusually degrades, combusts or otherwise changes chemical composition).

GGT PHDs are only issued to products that have passed GGT Standards' certification requirements. The Level of Assessment (BronzeHEALTH, SilverHEALTH GoldHEALTH or PlatinumHEALTH) rating relates ONLY to GGT Standard Sustainability Assessment Criteria 3, and is declared separately to the overall Bronze, Silver Gold or Platinum Green Tag Certification Mark Tier Levels.

1.2 Preparing a PHD

GGT PHDs are prepared using Hazard Classifications from the UN Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and as an outcome of a successful Application for Certification. Assessments are undertaken by GGT Qualified Exemplar Global Lead Auditors and subsequently accepted for Certification by the GGT Program Director (also a Qualified Exemplar Global Lead Auditor) under the GGT International Standard v4.0, Personal Products Standard v1.0, and Cleaning Products Standard v1.0 and above Program Rules.

1.3 External Peer Review

Every GGT PHD is independently peer reviewed by an external Consultant Toxicologist and Member of the Australian College of Toxicology &Risk Assessment.

2.0 Declaration of Ingredients

Where a manufacturer wishes recognition under a rating program that requires transparency of ingredients such as LEED v4.0, Living Building Challenge, Estidama etc., the following information is declared from audit:

Colour	Ingredient Name
Green	Ideal- Low No Comment required
Yellow	Medium to Low No Comment, or 'Issue of Concern' required depending on % of ingredient.
Orange	Moderate 'Issue of Concern' or 'Red Light' Comment depending on % of ingredient.
Red	Problematic (Red): Target for Phase 'Issue of Concern' or 'Red Light' Comment depending on % of ingredient.
Grey	Uncategorised Not able to be categorised due to lack of toxicity impact information.
Black	Banned Ingredients POPs, SVHCs plus a wide range of compounds depending on specific Standard requirements

Ingredient Name	CAS Number OR Function	Proportion in finished product	GHS, IARC & Endocrine Category	Ingredient Assessment (Raw)	Whole Of Life Assessment	In Use Health Assessment	Comment
Binder							
Tylose	Binder	0.1-2%	None				No comment Recycled Content: Unknown Nanomaterials: unknown
Aqueous dispersion of polymer							
mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothi-azol-3-one (3:1)	55965-84-9	<0.01%	None				None Recycled Content: Unknown Nanomaterials: unknown
2-methyl-2H-isothi-azol-3-one	2682-20-4	<0.1%	Aq Acute 1. Skin Corr. 1B Acute Tox. 3 Eye Dam. 1 Aq Chron 1 Acute Tox. 2 Skin Sens. 1A				Once applied the aqueous dispersion of polymer together with its preservatives/bio-cides will be incorporated in a hard, durable, inert film and will not present a significant hazard. Any fragments, chips and flakes of thepaint will be of little concern as they are expected to be inert Recycled Content: Unknown Nanomaterials: unknown
1,2-Benzisothi-azol-3(2H)-one	2634-33-5	<0.1%	Aq Acute 1 Acute Tox. 4 Eye Dam. 1 Skin Irrit. 2 Skin Sens. 1				Once applied the aqueous dispersion of polymer together with its preservatives/bio-cides will be incorporated in a hard, durable, inert film and will not present a significant hazard. Any fragments, chips and flakes of thepaint will be of little concern as they are expected to be inert Recycled Content: Unknown Nanomaterials: unknown
Proprietary	Additive	20-30%	None				Once applied the aqueous dispersion of polymer together with its preservatives/bio-cides will be incorporated in a hard, durable, inert film and will not present a significant hazard. Any fragments, chips and flakes of thepaint will be of little concern as they are expected to be inert Recycled Content: Unknown Nanomaterials: unknown
Additive							
Neutralizing Amine	Additive	<0.1%	None				None Recycled Content: Unknown Nanomaterials: unknown
Foam Control							
White mineral oil (petroleum)	8042-47-5	0.1-1%	None				None Recycled Content: Unknown Nanomaterials: unknown
Precipitated synthetic amorphous silica	112926-00-8	<0.5%	STOT 3. Eye Irrit 2A				Once applied, this ingredient in the foam control will be in-corporated in a hard, durable, inert film and will not present a significant hazard Recycled Content: Unknown Nanomaterials: unknown
Diethylenetriamine	111-40-0	<0.01%	Acute Aq Tox 3. Acute Tox 4 Acute Tox 2 Skin Corr 1B Skin Sens 1				Once applied, this ingredient in the foam control will be in-corporated in a hard, durable, inert film and will not present a significant hazard Recycled Content: Unknown Nanomaterials: unknown

Ingredient Name	CAS Number OR Function	Proportion in finished product	GHS, IARC & Endocrine Category	Ingredient Assessment (Raw)	Whole Of Life Assessment	In Use Health Assessment	Comment
Proprietary	Additive	0.1-1%	None				None Recycled Content: Unknown Nanomaterials: unknown
Modifier							
Hydrophobically modified ethylene oxide urethane	Rheology modifier	0.5-2%	None				Once applied, this rheology modifier will be incorporated in a hard, durable, inert film and will not present a significant hazard. Recycled Content: Unknown Nanomaterials: unknown
Dispersant							
polycarboxylic acid	Waterborne pigment dispersant	0.1-1%	None				Once applied, this dispersant will be incorporated in a hard, durable, inert film and will not present a significant hazard. Recycled Content: Unknown Nanomaterials: unknown
Modifier							
Non-ironic urethane	Rheology modifier	0.1-1%	None				Once applied, this rheology modifier will be incorporated in a hard, durable, inert film and will not present a significant hazard. Recycled Content: Unknown Nanomaterials: unknown
Pigment							
Opaque Polymer	Polymeric pigment	1-10%	None				Once applied, this opaque polymer pigment will be incorporated in a hard, durable, inert film and will not present a significant hazard. Recycled Content: Unknown Nanomaterials: unknown
Water							
Dosed Water	Diluent	20-40%	None				None Recycled Content: Unknown Nanomaterials: no
Surfactant							
Non ionic surfactant	Surfactant	0.1-1%	Acute Aq Tox 1				Once applied, this surfactant will be incorporated in a hard, durable, inert film and will not present a significant hazard. Recycled Content: Unknown Nanomaterials: unknown
Pigment							
Titanium dioxide	Pigment	20-30%	None				None Recycled Content: Unknown Nanomaterials: Yes
Biocide							
Antomicrobial micro-bicide	Biocide	<0.1%	Acute Tox 4 Eye Dam. 1 Chron Aq Tox 1				Once applied, this biocide will be incorporated in hard, durable, inert film and will not present a significant hazard. Recycled Content: Unknown Nanomaterials: no
Emulsion							
Emusion	Emulsion Agent	10-20%	STOT RE 1 STOT RE 2				Once applied, this emulsion agent will be incorporated in hard, durable, inert film and will not present a significant hazard. Recycled Content: Unknown Nanomaterials: no
Biocide							

Ingredient Name	CAS Number OR Function	Proportion in finished product	GHS, IARC & Endocrine Category	Ingredient Assessment (Raw)	Whole Of Life Assessment	In Use Health Assessment	Comment
Biocide	biodete-rioration prevention	0-1%	Acute Aq Tox 2. Skin Irrit 2 Skin Sens 1 Eye Dam 1				Once applied, this biocide will be incorporated in hard, durable, inert film and will not present a significant hazard. Recycled Content: Unknown Nanomaterials: no

* No GHS H-Statement classification

Comments:

VOC emissions: Global GreenTag International Program Standard v4.0 Formaldehyde Content Supplementary Standard in accordance with requirements of the Green Building Council of Australia and LEEDv4, as updated from time to time.

VOC content: VOC g/L for Dulux UltraAir applied on site is < 1g/L ready to use product calculated in accordance with the stated methodology within Green Star technical manual. The TVOC content of the 'ready-to-use' paint shall be theoretically calculated as the sum total of VOCs of each of the raw material components comprising the paint. Calculations submitted on 25/11/2020 by Dulux Australia. The VOC content also complies with limits set in the CDPH-IAQ V1.1 2010: Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources using Environmental Chambers. This is in reference to Certificate C 2005211-1 from BELL Laboratories, VIC, Australia.

Other relevant information as necessary